



ZAHOOR AHMED

Senior Software Engineer · AI Engineer

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Mülheim-Kärlich, Germany

Permanent Residency · Deutsch B1

PROFESSIONAL SUMMARY

Senior Software Engineer with 8+ years of experience architecting enterprise-grade applications, now specializing in Applied AI Engineering. Recently certified as an Associate AI Engineer (Datacamp & Turning College), with a focus on building RAG systems, multi-agent workflows, and vector-based retrieval. Proven track record of delivering scalable microservices on AWS and Kubernetes for high-stakes industries fleet telematics, e-commerce and airlines. Expert in TypeScript and Node.js, with a deep commitment to bridging frontier AI models with robust, production-ready software architectures.

TECHNICAL SKILLS

AI/LLM Engineering	RAG, LangChain, LangSmith, LangGraph, AI Agents, Prompt Engineering, OpenAI / Claude
Frontend	TypeScript, Angular 19, React, Next.js, Redux, NgRx, PWA.
Backend	Node.js, NestJS, FastAPI, Python, Java, Spring Boot, REST APIs, GraphQL, PostgreSQL, MongoDB.
Databases	PostgreSQL, MongoDB, CouchDB, Redis, Elasticsearch, data Modeling (ERM, UML)
Testing	Jest, Playwright, E2E (Chrome / Firefox / Safari) TDD Development
DevOps/Cloud	AWS (Bedrock, SageMaker, Lambda, S3, CodePipeline), Docker, Kubernetes, GitLab CI/CD, Grafana.

WORK EXPERIENCE

Senior Software Engineer · PTC Telematik GmbH

Dec 2024 – Present | Coblenz, DE

- Angular 19 / TypeScript PWA modules for a fleet telematics from TDD to deployment.
- Architecting NestJS backend services with PostgreSQL, schema design and REST APIs.
- Managed Kubernetes-based microservices on AWS, ensuring scalability and high availability in production.
- Building CI/CD pipelines using GitLab CI with Grafana-based monitoring and observability.
- Developed Kotlin services for real-time vehicle route tracking and fleet monitoring.
- Developed full AWS serverless stack (Lambda, API Gateway, CloudFront, S3, CodePipeline) with SNS notifications.

Full Stack Developer · Retromotion GmbH

Dec 2022 – Aug 2024 | Stuttgart, DE

- Architected a microservices-based e-commerce platform (Vue.js, Node.js, TypeScript, PostgreSQL) for auto parts.
- Built a real-time admin dashboard using Socket.io and implemented Elasticsearch for high-performance product search.
- Amazon Seller API, SOAP/ REST APIs integration. Automated Ebay, Amazon, Tyre24 order synchronization via cron jobs.
- Containerized services on AWS and designed CouchDB-based analytics queries along with bulk imports / exports workflows.
- DHL Address correction automation with DHL REST / SOAP APIs reduces support teams overhead for manual support.

Software Engineer · TPConnects Technologies

Oct 2019 – Oct 2022 | Dubai, UAE

- Developed Flight booking platform (Angular, React, Node.js, PostgreSQL) from scratch to production.
- Integrated GDS and airline suppliers using Java Spring Boot microservices and AWS API Gateway.
- Managed complex booking state using NgRx and Redux, adapting frontend workflows to dynamic client requirements.
- Secured app with JWT, OAuth 2.0, CORS, HTTP interceptors.
- Designed and deployed a full AWS-based architecture (Lambda, API Gateway, CloudFormation, Route 53, SNS).
- Built GitLab CI/CD pipelines on AWS ECS and applied TDD using Jest and Playwright across the end-to-end booking flow.

EDUCATION

B.Eng. Software Engineering (BSCSE) · Virtual University of Pakistan · 2014 – 2018

Associate AI Engineer for Developers Datacamp 2026

LIVE PROJECTS

duidiapp.com [yfldubai](https://yfldubai.com) [tpconnects](https://tpconnects.nl) unikoop.nl [retromotion](https://retromotion.com) venueexplorer.sg [tpconnects](https://tpconnects.com) [majesticjourney](https://majesticjourney.com), DeutschFlow AI